OIPE

#3

P.6

```
RAW SEQUENCE LISTING                    DATE: 05/31/2002
PATENT APPLICATION:  US/10/010,720      TIME: 11:58:05

          Input Set : A:\LEX-0382-USA SEQLIST.txt
          Output Set: N:\CRF3\05312002\J010720.raw
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 4 <110> APPLICANT: Walke, D. Wade
 5           Hilbun, Erin
 6           Donoho, Gregory
 7           Turner, C. Alexander Jr.
 8           Hansen, Gwenn
 9           BeltrandelRio, Hector
10           Van Sligtenhorst, Isaac
12 <120> TITLE OF INVENTION: Novel Human Kinases and Polynucleotides
13           Encoding the Same, And Uses Thereof
15 <130> FILE REFERENCE: LEX-0382-USA
17 <140> CURRENT APPLICATION NUMBER: US/10/010,720
17 <141> CURRENT FILING DATE: 2002-05-21
17 <150> PRIOR APPLICATION NUMBER: US 60/206,015
18 <151> PRIOR FILING DATE: 2000-05-19
20 <150> PRIOR APPLICATION NUMBER: US 09/854,856
21 <151> PRIOR FILING DATE: 2000-05-14
23 <160> NUMBER OF SEQ ID NOS: 64
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 7149
29 <212> TYPE: DNA
30 <213> ORGANISM: Homo sapiens
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34 ccggctcctg cccccaagaa tggctccagc tccgattcct ccgtggggga gaaactggga     120
35 gccgcggccg ccgacgctgt gaccggcagg accgaggagt acaggcgccg ccgccacact     180
36 atggacaagg acagccgtgg ggcggccgcg accactacca ccactgagca ccgcttcttc     240
37 cgccggagcg tcatctgcga ctccaatgcc actgcactgg agcttcccgg ccttcctctt     300
38 tccctgcccc agcccagcat ccccgcggct gtcccgcaga gtgctccacc ggagccccac     360
39 cgggaagaga ccgtgaccgc caccgccact tccaggtag cccagcagcc tccagccgct     420
40 gccgcccctg gggaacaggc cgtcgcgggc cctgcccccт cgactgtccc cagcagtacc     480
41 agcaaagacc gcccagtgtc ccagcctagc cttgtgggga gcaaagagga gccgccgccg     540
42 gcgagaagtg gcagcggcgg cggcagcgcc aaggagccac aggaggaacg gagccagcag     600
43 caggatgata tcgaagagct ggagaccaag gccgtgggaa tgtctaacga tggccgcttt     660
44 ctcaagtttg acatcgaaat cggcagaggc tcctttaaga cggtctacaa aggtctggac     720
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46 gagaggcaga gatttaaaga agaagctgaa atgttaaaag gtcttcagca tcccaatatt     840
47 gttagatttt atgattcctg ggaatccaca gtaaaaggaa agaagtgcat tgtttttggtg     900
48 actgaactta tgacgtctgg aacacttaaa acgtatctga aaggtttaaa agtgatgaag     960
49 atcaaagttc taagaagctg gtgccgtcag atccttaaag gtcttcagtt tcttcatact    1020
50 cgaactccac ctatcattca ccgcgatctt aaatgtgaca acatctttat caccggccct    1080
51 actggctcag tcaagattgg agacctcggt ctggcaaccc tgaagcgggc ttcttttgcc    1140
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 55 ccagccagtt ttgacaaagt agcaattcct gaagtgaagg aaattattga aggatgcata   1380
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 59 gctattgagt tttcttttga tttagagaga gatgtcccag aagatgttgc acaagaaatg   1620
 60 gtagagtctg ggtatgtctg tgaaggtgat cacaagacca tggctaaagc tatcaaagac   1680
 61 agagtatcat taattaagag gaaacgagag cagcggcagt tggtacggga ggagcaagaa   1740
 62 aaaaaaaagc aggaagagag cagtctcaaa cagcaggtag aacaatccag tgcttcccag   1800
 63 acaggaatca agcagctccc ttctgctagc accggcatac ctactgcttc taccacttca   1860
 64 gcttcagttt ctacacaagt agaacctgaa gaacctgagg cagatcaaca tcaacaacta   1920
 65 cagtaccagc aacccagtat atctgtgtta tctgatggga cggttgacag tggtcaggga   1980
 66 tcctctgtct tcacagaatc tcgagtgagc agccaacaga cagtttcata tggttcccaa   2040
 67 catgaacagg cacattctac aggcacagtc ccagggcata taccttctac tgtccaagca   2100
 68 cagtctcagc cccatggggt atatccaccc tcaagtgtgg cacaggggca gagccagggt   2160
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 74 ggtgctcatt tccttccagt gggacagccg ctccctactc ccttgctccc tcagtaccct   2520
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 88 cattaccgaa aatctgtaag gagtcgctct cgacatgaaa aaacttcacg cccaaaatta   3360
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 91 acaattatgg tgaacaatga ctttattcta gcaatagaga gagagtcgtt tgtggatcaa   3540
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 93 gagggtgatc agggattgga gagtctacaa ggaaaggatg actatggctt ttcaggttct   3660
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100 agtagcattg ctggagtccc aaccacagca gcagccacag caccagtccc tgcaacaagc   4080
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RAW SEQUENCE LISTING   DATE: 05/31/2002
PATENT APPLICATION: US/10/010,720   TIME: 11:58:05

        Input Set : A:\LEX-0382-USA SEQLIST.txt
        Output Set: N:\CRF3\05312002\J010720.raw

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151 aatttcaaca tcagcaattt gcagaaatcc atcagcaacc ccccaggctc caacctgcgg    7140
152 accacttag                                                            7149
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157 <211> LENGTH: 2382
158 <212> TYPE: PRT
159 <213> ORGANISM: Homo sapiens
161 <220> FEATURE:
162 <221> NAME/KEY: VARIANT
163 <222> LOCATION: (1)...(2382)
164 <223> OTHER INFORMATION: Xaa = Any Amino Acid
166 <400> SEQUENCE: 2
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168  1               5                   10                  15
169 Phe Leu Ser Pro Pro Ala Pro Ala Pro Lys Asn Gly Ser Ser Ser Asp
170             20                  25                  30
171 Ser Ser Val Gly Glu Lys Leu Gly Ala Ala Ala Asp Ala Val Thr
172             35                  40                  45
173 Gly Arg Thr Glu Glu Tyr Arg Arg Arg His Thr Met Asp Lys Asp
174      50                  55                  60
175 Ser Arg Gly Ala Ala Ala Thr Thr Thr Thr Glu His Arg Phe Phe
176 65                  70                  75                  80
177 Arg Arg Ser Val Ile Cys Asp Ser Asn Ala Thr Ala Leu Glu Leu Pro
178             85                  90                  95
179 Gly Leu Pro Leu Ser Leu Pro Gln Pro Ser Ile Pro Ala Ala Val Pro
180             100                 105                 110
181 Gln Ser Ala Pro Pro Glu Pro His Arg Glu Glu Thr Val Thr Ala Thr
182             115                 120                 125
183 Ala Thr Ser Gln Val Ala Gln Gln Pro Pro Ala Ala Ala Ala Pro Gly
184      130                 135                 140
185 Glu Gln Ala Val Ala Gly Pro Ala Pro Ser Thr Val Pro Ser Ser Thr
186 145                 150                 155                 160
187 Ser Lys Asp Arg Pro Val Ser Gln Pro Ser Leu Val Gly Ser Lys Glu
188             165                 170                 175
189 Glu Pro Pro Pro Ala Arg Ser Gly Ser Gly Gly Gly Ser Ala Lys Glu
190             180                 185                 190
191 Pro Gln Glu Glu Arg Ser Gln Gln Gln Asp Asp Ile Glu Glu Leu Glu
192             195                 200                 205
193 Thr Lys Ala Val Gly Met Ser Asn Asp Gly Arg Phe Leu Lys Phe Asp
194      210                 215                 220
195 Ile Glu Ile Gly Arg Gly Ser Phe Lys Thr Val Tyr Lys Gly Leu Asp
196 225                 230                 235                 240
197 Thr Glu Thr Thr Val Glu Val Ala Trp Cys Glu Leu Gln Asp Arg Lys
198                 245                 250                 255
199 Leu Thr Lys Ser Glu Arg Gln Arg Phe Lys Glu Glu Ala Glu Met Leu
200             260                 265                 270
201 Lys Gly Leu Gln His Pro Asn Ile Val Arg Phe Tyr Asp Ser Trp Glu
202      275                 280                 285
203 Ser Thr Val Lys Gly Lys Lys Cys Ile Val Leu Val Thr Glu Leu Met
204      290                 295                 300
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RAW SEQUENCE LISTING   DATE: 05/31/2002
PATENT APPLICATION: US/10/010,720   TIME: 11:58:05

Input Set : A:\LEX-0382-USA SEQLIST.txt
Output Set: N:\CRF3\05312002\J010720.raw

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206 305                     310                 315                 320
207 Ile Lys Val Leu Arg Ser Trp Cys Arg Gln Ile Leu Lys Gly Leu Gln
208              .          325                 330                 335
209 Phe Leu His Thr Arg Thr Pro Pro Ile Ile His Arg Asp Leu Lys Cys
210             340                 345                 350
211 Asp Asn Ile Phe Ile Thr Gly Pro Thr Gly Ser Val Lys Ile Gly Asp
212         355                 360                 365
213 Leu Gly Leu Ala Thr Leu Lys Arg Ala Ser Phe Ala Lys Ser Val Ile
214     370                 375                 380
215 Gly Thr Pro Glu Phe Met Ala Pro Glu Met Tyr Glu Glu Lys Tyr Asp
216 385             .          390                 395                 400
217 Glu Ser Val Asp Val Tyr Ala Phe Gly Met Cys Met Leu Glu Met Ala
218              .          405                 410·        .          415
219 Thr Ser Glu Tyr Pro Tyr Ser Glu Cys Gln Asn Ala Ala Gln Ile Tyr
220             420                 425                 430
221 Arg Arg Val Thr Ser Gly Val Lys Pro Ala Ser Phe Asp Lys Val Ala
222         435               ·    440                 445                .
223 Ile Pro Glu Val Lys Glu Ile Ile Glu Gly Cys Ile Arg Gln Asn Lys
224         450                 455                 460
225 Asp Glu Arg Tyr Ser Ile Lys Asp Leu Leu Asn His Ala Phe Phe Gln
226 465                 470                 475                 480
227 Glu Glu Thr Gly Val Arg Val Glu Leu Ala Glu Glu Asp Asp Gly Glu
228         485                 490                 495
229 Lys Ile Ala Ile Lys Leu Trp Leu Arg Ile Glu Asp Ile Lys Lys Leu
230     .          500                 505                 510
231 Lys Gly Lys Tyr Lys Asp Asn Glu Ala Ile Glu Phe Ser Phe Asp Leu
232         515                 520·                525
233 Glu Arg Asp Val Pro Glu Asp Val Ala Gln Glu Met Val Glu Ser Gly
234     530                 535                 540
235 Tyr Val Cys Glu Gly Asp His Lys Thr Met Ala Lys Ala Ile Lys Asp
236 545   .          ·550    .          ·          555      .          560      .
237 Arg Val Ser Leu Ile Lys Arg Lys Arg Glu Gln Arg Gln Leu Val Arg
238              .          565                 570                 575
239 Glu Glu Gln Glu Lys Lys Lys Gln Glu Glu Ser Ser Leu Lys Gln Gln
240         580                 585                 590
241 Val Glu Gln Ser Ser Ala Ser Gln Thr Gly Ile Lys Gln Leu Pro Ser
242         595                 600                 605
243 Ala Ser Thr Gly Ile Pro Thr Ala Ser Thr Thr Ser Ala Ser Val Ser
244     610                 615                 620
245 Thr Gln Val Glu Pro Glu Glu Pro Glu Ala Asp Gln His Gln Gln Leu
246 625                 630                 635                 640
247 Gln Tyr Gln Gln Pro Ser Ile Ser Val Leu Ser Asp Gly Thr Val Asp
248         645                 650                 655
249 Ser Gly Gln Gly Ser Ser Val Phe Thr Glu Ser Arg Val Ser Ser Gln
250         660                 665                 670
251 Gln Thr Val Ser Tyr Gly Ser Gln His Glu Gln Ala His Ser Thr Gly
252         675                 680                 685
253 Thr Val Pro Gly His Ile Pro Ser Thr Val Gln Ala Gln Ser Gln Pro
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/31/2002
PATENT APPLICATION: US/10/010,720 TIME: 11:58:06

Input Set : A:\LEX-0382-USA SEQLIST.txt
Output Set: N:\CRF3\05312002\J010720.raw

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:2;  Xaa Pos.  977,1808
Seq#:4;  Xaa Pos.  977,1808
Seq#:6;  Xaa Pos.  977
Seq#:8;  Xaa Pos. 824,1655
Seq#:10; Xaa Pos.  824,1655
Seq#:12; Xaa Pos.  824
Seq#:14; Xaa Pos.  1562
Seq#:16; Xaa Pos.  1562
Seq#:18; Xaa Pos.  949,1780
Seq#:20; Xaa Pos.  949,1780
Seq#:22; Xaa Pos.  949
Seq#:24; Xaa Pos.  796,1627
Seq#:26; Xaa Pos.  796,1627
Seq#:28; Xaa Pos.  796
Seq#:30; Xaa Pos.  1534
Seq#:32; Xaa Pos.  1534
Seq#:34; Xaa Pos.  917,1748
Seq#:36; Xaa Pos.  917,1748
Seq#:38; Xaa Pos.  917
Seq#:40; Xaa Pos.  764,1595
Seq#:42; Xaa Pos.  764,1595
Seq#:44; Xaa Pos.  764
Seq#:46; Xaa Pos.  1502
Seq#:48; Xaa Pos.  1502
Seq#:50; Xaa Pos.  889,1720
Seq#:52; Xaa Pos.  889,1720
Seq#:54; Xaa Pos.  889
Seq#:56; Xaa Pos.  736,1567
Seq#:58; Xaa Pos.  736,1567
Seq#:60; Xaa Pos.  736
Seq#:62; Xaa Pos.  1474
Seq#:64; Xaa Pos.  1474
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